Patent Plaques

JP8155303A: EXHAUST GAS PURIFICATION CATALYST CARRIER, PRODUCTION OF THE SAME AND EXHAUST GAS PURIFICATION CATALYST USING THE SAME AND METHOD FOR PURIFYING EXHAUST GAS

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Abstract: **Purpose**: To more efficiently remove NOx and HC(hydrocarbon) in an exhaust gas.
Constitution: This catalyst carrier consists of an interlayer-crosslinked niobium based layer perovskite. In the layer perovskite, the layers consisting of layer anion groups are crosslinked together by silicon dioxide, whose group is represented by the general formula, Mn-1NbnO3n+1 (wherein: M is at least one metal selected from alkaline earth metals of Ca, Sr and Ba, rare earth elements of Y, La, Ce and Nd and transition metals of Mo, Fe, Co and Ni; (n) is a number of =2). Also, the pore size in diameter and specific surface area of the perovskite are adjusted to 10 to 40Å and 250 to 500m2/g respectively. Since the layers are crosslinked together by columnar silicon dioxide, a large number of uniform pores are formed in the space between every adjacent two of the